

AMENDMENTS TO THE CLAIMS

1 1. (Canceled)

1 2. (Canceled)

1 3. (Canceled)

1 4. (Canceled)

1 5. (Canceled)

1 6. (Canceled)

1 7. (Canceled)

1 8. (Previously Presented) A method of generating customized versions
2 of a document using a computer system, the method comprising:

3 storing the document in raw form;

4 parsing the document to create an internal representation of the document;

5 receiving a request to generate a second-level document;

6 decomposing the document to create the second-level document, wherein

7 decomposing the document comprises:

8 applying a first first-level transform to the internal representation of the
9 document to create a first first-level document; and

10 in response to the request to generate the second-level document, applying

11 a second-level transform to the first first-level document to create
12 the second-level document; and

13 decomposing the document to create a second first-level document, wherein

14 decomposing the document to create the second first-level document
15 comprises:

16 applying a second first-level transform to the internal representation of the
17 document to create a second first-level document;

18 wherein the first first-level document and the second first-level document are
19 different.

1 9. (Currently Amended) [[A]] The method as defined in Claim 8, wherein
2 applying a first first-level transform and applying a second-level transform comprises
3 applying sequential transforms to the document.

1 10. (Canceled)

1 11. (Canceled)

1 12. (Currently Amended) [[A]] The method as defined in Claim 8, wherein
2 decomposing the document comprises applying a third-level transform to the second
3 level document to create a third-level document.

1 13. (Currently Amended) [[A]] The method as defined in Claim 8, wherein
2 the document is stored in raw XML form.

1 14. (Currently Amended) [[A]] The method as defined in Claim 13, wherein
2 applying a first first-level transform and applying a second-level transform comprises
3 applying sequential transforms to the document.

1 15. (Currently Amended) [[A]] The method as defined in Claim 14, wherein
2 applying a first first-level transform of the document stored in raw XML form comprises
3 applying a subscription-level transform to the internal representation of the document to
4 create a subscription-level document.

1 16. (Currently Amended) [[A]] The method as defined in Claim 15, wherein
2 the subscription-level transform enables content filtering of the internal representation in
3 accordance with a user's request.

1 17. (Currently Amended) [[A]] The method as defined in Claim 16, wherein
2 applying a second-level transform comprises applying an organization-level transform to
3 the subscription-level document to create an organization-level document.

1 18. (Currently Amended) [[A]] The method as defined in Claim 17, wherein
2 the organization-level transform enables subscription-specific content filtering of a
3 subscription-level document.

1 19. (Currently Amended) [[A]] The method as defined in Claim 18, wherein
2 decomposing the document comprises applying a presentation-level transform to the
3 organization-level document to create a presentation-level document.

1 20. (Currently Amended) [[A]] The method as defined in Claim 19, wherein
2 the presentation-level transform generates an organization-specific document for end user
3 presentation.

1 21. (Currently Amended) [[A]] The method as defined in Claim 20, wherein
2 the presentation-level transform generates an HTML document or a text file for end user
3 presentation.

4 22. (Currently Amended) [[A]] The method as defined in Claim 21, wherein
5 the subscription-level transform is mandatory and the organization-level and
6 presentation-level transforms are optional.

1 23. (Currently Amended) [[A]] The method as defined in Claim 8, wherein a
2 transform is applied to a document only as a result of an initial demand for a transformed
3 document.

1 24. (Currently Amended) [[A]] The method as defined in Claim 23, wherein
2 the demand for a transformed document is a client request.

1 25. (Currently Amended) [[A]] The method as defined in Claim 24, wherein
2 the demand for a transformed document is a document publication process.

1 26. (Currently Amended) [[A]] The method as defined in Claim 23, wherein
2 transformed documents are written to a cache.

1 27. (Currently Amended) [[A]] The method as defined in Claim 26, wherein
2 demands for a transformed document, subsequent to the initial demand, are referred to
3 the cache.

1 28. (Currently Amended) A computer readable medium having [[data]] code
2 stored therein to cause a data processing system to generate a data document according to
3 a process comprising:

4 storing a raw form of the document;
5 parsing the document to create an internal representation of the document; and
6 receiving a request from a client computer system coupled to the data processing
7 system to generate a second-level document into a particular form;
8 decomposing the document into the form requested by the client system, wherein
9 decomposing the document comprises:
10 applying a first first-level transform to the internal representation of the
11 document to create a first first-level document; and
12 in response to the request to generate the second-level document, applying
13 a second-level transform to the first first-level document to create
14 the second-level document; and
15 decomposing the document to create a second first-level document, wherein
16 decomposing the document to create the second first-level document
17 comprises:
18 applying a second first-level transform to the internal representation of the
19 document to create a second first-level document;
20 wherein the first first-level document and the second first-level document are
21 different.

1 29. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim 28, wherein applying a first first-level transform and applying a second-level
3 transform comprises applying sequential transforms to the document.

1 30. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim 28, wherein the document is stored in XML form.

1 31. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim 30, wherein the document stored in XML form is parsed by an XML parser to
3 create the internal representation.

1 32. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim 31, wherein the internal representation level of the document is transformed to a
3 subscription-level document by applying a subscription-level transform to the internal
4 representation.

1 33. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim 32, wherein application of the subscription level transform to the internal
3 representation to create a subscription-level document is required.

1 34. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim 32, wherein the subscription-level document is transformed into an organization-
3 level document by applying an organization-level transform to the subscription-level
4 document.

1 35. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim 34, wherein application of the organization-level transform to the subscription-
3 level document to create an organization-level document is optional.

1 36. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim 34, wherein the internal representation of the document is decomposed to a
3 transform-level document only in response to a request for a transform-level document.

1 37. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim 36, wherein transformed documents are written to a cache.

1 38. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim 37, wherein an initial request for a transformed document causes decomposition of
3 the internal representation into the form requested and wherein subsequent requests for a
4 transformed document causes the transformed document to be retrieved from memory.

1 39. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim [[29]] 28, wherein the ~~data document is generated according to a process~~
3 ~~comprising code is further configured to cause the data processing system to:~~
4 ~~tracking the dependencies of a transformed document track changes to at least one~~
5 ~~of: (i) the raw form of the document, (ii) the first first-level transform,~~
6 ~~(iii) the second level transform, and (iv) the second first-level transform;~~
7 ~~and~~
8 ~~regenerating regenerate~~ the transformed document when any ~~(i)-(iv)~~
9 ~~dependency related to the document~~ changes.

1 40. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim 39, ~~wherein the document is generated according to a process comprising wherein~~
3 ~~the code is further configured to cause the data processing system to:~~
4 ~~designating designate~~ a cached version of the document invalid when any
5 ~~dependency related to the document changes, and~~
6 ~~regenerating regenerate~~ the transformed document in response to a request for the
7 document that is made after the dependency change.

1 41. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim 40, wherein the document is stored in XML form.

1 42. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim 39, wherein the document stored in XML form is parsed by an XML parser to
3 create the internal representation.

1 43. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim 42, wherein the internal representation level of the document is transformed to a
3 subscription-level document by applying a subscription-level transform to the internal
4 representation.

1 44. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim 43, wherein application of the subscription level transformed to the internal
3 representation to create a subscription-level document is required.

1 45. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim 43, wherein the subscription-level document is transformed into an organization-
3 level document by applying an organization-level transform to the subscription-level
4 document.

1 46. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim 45, wherein application of the organization-level transform to the subscription-
3 level document to create an organization-level document is optional.

1 47. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim 45, wherein the internal representation of the document is decomposed to a
3 transform-level document only in response to a request for a transform-level document.

1 48. (Currently Amended) [[A]] The computer readable medium as defined in
2 Claim 47, wherein transformed documents are written to a cache.

49-73. (Canceled)

1 74. (New) A system comprising:
2 a processor; and
3 a memory, coupled to the processor, having code stored therein to cause the
4 system to generate a data document, wherein the code is executable by the
5 processor for:
6 storing a raw form of the document;
7 parsing the document to create an internal representation of the document;
8 and
9 receiving a request from a client computer system coupled to the data
10 processing system to generate a second-level document into a
11 particular form;
12 decomposing the document into the form requested by the client system,
13 wherein decomposing the document comprises:
14 applying a first first-level transform to the internal representation
15 of the document to create a first first-level document; and
16 in response to the request to generate the second-level document,
17 applying a second-level transform to the first first-level
18 document to create the second-level document; and
19 decomposing the document to create a second first-level document,
20 wherein decomposing the document to create the second first-level
21 document comprises:
22 applying a second first-level transform to the internal
23 representation of the document to create a second first-level
24 document;
25 wherein the first first-level document and the second first-level document
26 are different.

1 75. (New) The system as defined in Claim 74, wherein applying a first first-
2 level transform and applying a second-level transform comprises applying sequential
3 transforms to the document.

1 76. (New) The system as defined in Claim 74, wherein the document is stored
2 in XML form.

1 77. (New) The system as defined in Claim 76, wherein the document stored in
2 XML form is parsed by an XML parser to create the internal representation.

1 78. (New) The system as defined in Claim 77, wherein the internal
2 representation level of the document is transformed to a subscription-level document by
3 applying a subscription-level transform to the internal representation.

1 79. (New) The system as defined in Claim 78, wherein application of the
2 subscription level transform to the internal representation to create a subscription-level
3 document is required.

1 80. (New) The system as defined in Claim 78, wherein the subscription-level
2 document is transformed into an organization-level document by applying an
3 organization-level transform to the subscription-level document.

1 81. (New) The system as defined in Claim 78, wherein application of the
2 organization-level transform to the subscription-level document to create an organization-
3 level document is optional.

1 82. (New) The system as defined in Claim 80, wherein the internal
2 representation of the document is decomposed to a transform-level document only in
3 response to a request for a transform-level document.

1 83. (New) The system as defined in Claim 82, wherein transformed
2 documents are written to a cache.

1 84. (New) The system as defined in Claim 83, wherein an initial request for a
2 transformed document causes decomposition of the internal representation into the form

3 requested and wherein subsequent requests for a transformed document causes the
4 transformed document to be retrieved from memory.

1 85. (New) The system as defined in Claim 74, wherein the code is further
2 configured to cause the processor to:

3 track changes to at least one of: (i) the raw form of the document, (ii) the first
4 first-level transform, (iii) the second level transform, and (iv) the second
5 first-level transform; and
6 regenerate the transformed document when any of (i)-(iv) changes.

1 86. (New) The system as defined in Claim 85, wherein the code is further
2 configured to cause the processor to:

3 designate a cached version of the document invalid when any dependency related
4 to the document changes, and
5 regenerate the transformed document in response to a request for the document
6 that is made after the dependency change.

1 87. (New) The system as defined in Claim 86, wherein the document is stored
2 in XML form.

1 88. (New) The system as defined in Claim 85, wherein the document stored in
2 XML form is parsed by an XML parser to create the internal representation.

1 89. (New) The system as defined in Claim 88, wherein the internal
2 representation level of the document is transformed to a subscription-level document by
3 applying a subscription-level transform to the internal representation.

1 90. (New) The system as defined in Claim 89, wherein application of the
2 subscription level transformed to the internal representation to create a subscription-level
3 document is required.

1 91. (New) The system as defined in Claim 89, wherein the subscription-level
2 document is transformed into an organization-level document by applying an
3 organization-level transform to the subscription-level document.

1 92. (New) The system as defined in Claim 91, wherein application of the
2 organization-level transform to the subscription-level document to create an organization-
3 level document is optional.

1 93. (New) The system as defined in Claim 91, wherein the internal
2 representation of the document is decomposed to a transform-level document only in
3 response to a request for a transform-level document.

1 94. (New) The system as defined in Claim 93, wherein transformed
2 documents are written to a cache.